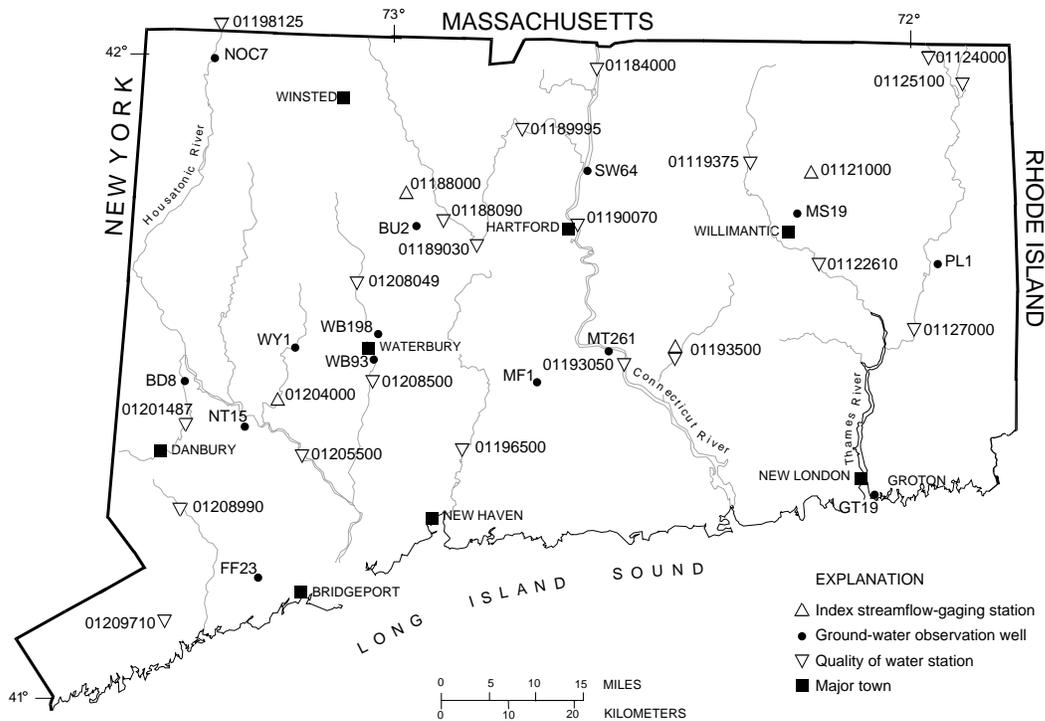


**U.S. Department of the Interior  
U.S. Geological Survey**



**WATER-RESOURCES CONDITIONS  
IN CONNECTICUT, MAY 2000**

*The USGS provides maps, reports, and information to help others manage, develop, and protect America's water, energy, mineral, land, and biological resources.*



**DATA-COLLECTION SITES USED IN THIS REPORT**

This report contains a small part of the ground-water, surface-water, and water-quality data collected by the USGS at sites in Connecticut. More complete information may be found in the annual Water-Data Report. Data for this report were collected by the USGS in cooperation with the Connecticut Dept. of Environmental Protection.

For more information on USGS programs in Connecticut, please contact Virginia de Lima (District Chief); 101 Pitkin St., East Hartford, CT 06108; **phone (860) 291-6740**; fax (860) 291-6799; [dc\\_ct@usgs.gov](mailto:dc_ct@usgs.gov)

Additional earth science information, including this document, is on the USGS Home Page on the World Wide Web at <http://www.usgs.gov> or the Connecticut District home page at <http://ct.water.usgs.gov> For more information on all USGS reports and products (including maps, images, and computerized data), call **1-888-ASK-USGS**

**INDEX TO INFORMATION**

Data Sites	1	Water Quality	3
Streamflow	2	Ground Water	4

**STREAMFLOW** (measured in cubic feet per second) ➔ PROVISIONAL DATA ←

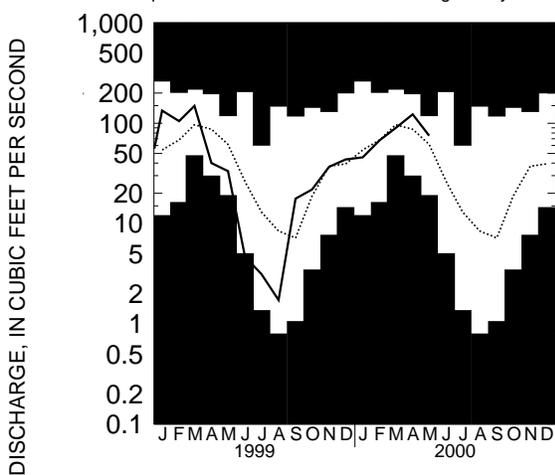
Streamflows in May were in the normal range for the entire State. Flow in Mount Hope River (NE Connecticut) returned to the normal range after being in the above-normal range for 1 month. Flows in Burlington Brook (NW Connecticut), Salmon River (SE Connecticut), and Pomperaug River (SW Connecticut) remained in the normal range for the 7th consecutive month. Across the State, mean streamflow for May averaged 110 percent of the May long-term median value.

USGS STREAMFLOW-GAGING STATION NAME AND NUMBER	MAY 2000 MEAN	APRIL 2000 MEAN	MAY 1999 MEAN	MAY MAXIMUM VALUE (year recorded)		MAY MINIMUM VALUE (year recorded)		MAY MEDIAN (1961-90)
				Value	Year	Value	Year	
MT HOPE RIVER (01121000)	75.2	123	33.3	119	1984	19.0	1957	61.6
BURLINGTON (01188000)	10.9	11.3	7.46	30.1	1989	3.42	1965	9.45
SALMON RIVER (01193500)	220	363	146	482	1989	82.6	1986	224
POMPERAUG (01204000)	146	152	114	476	1989	40.3	1941	138

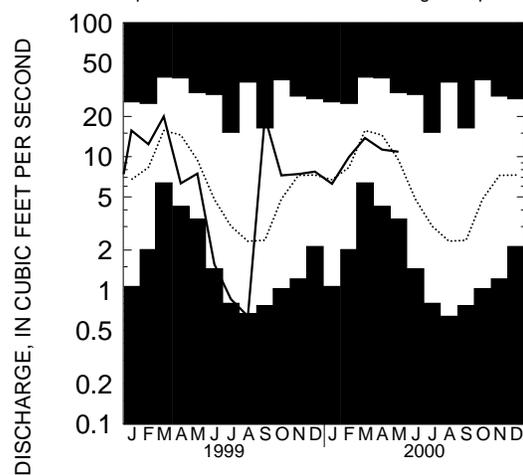
**MONTHLY MEAN RUNOFF AT FOUR INDEX STATIONS**

Shaded areas on graphs show highest and lowest monthly mean discharge of record.  
 Current record       Median (1961-1990)

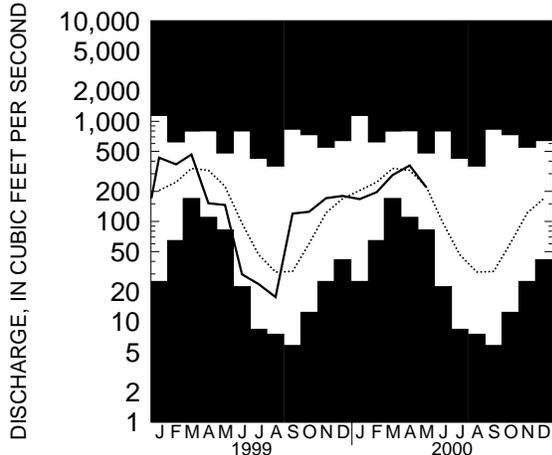
**MOUNT HOPE RIVER NEAR WARRENVILLE**  
28.6 sq. mi. Record began July 1940



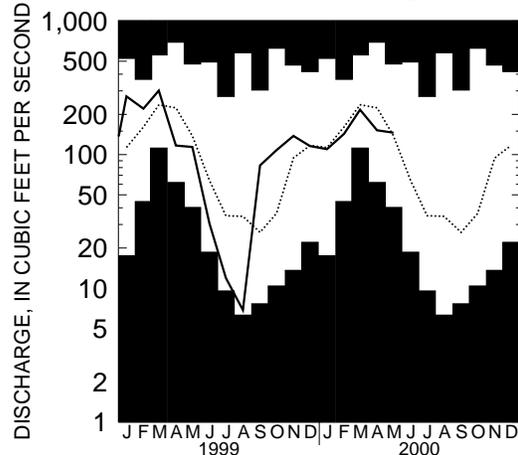
**BURLINGTON BROOK NEAR BURLINGTON**  
4.10 sq. mi. Record began Sept. 1931



**SALMON RIVER NEAR EAST HAMPTON**  
100 sq. mi. Record began July 1928



**POMPERAUG RIVER AT SOUTHBURY**  
75.1 sq. mi. Record began June 1932



## CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL QUALITY OF SELECTED STREAMS IN CONNECTICUT

← PROVISIONAL DATA →

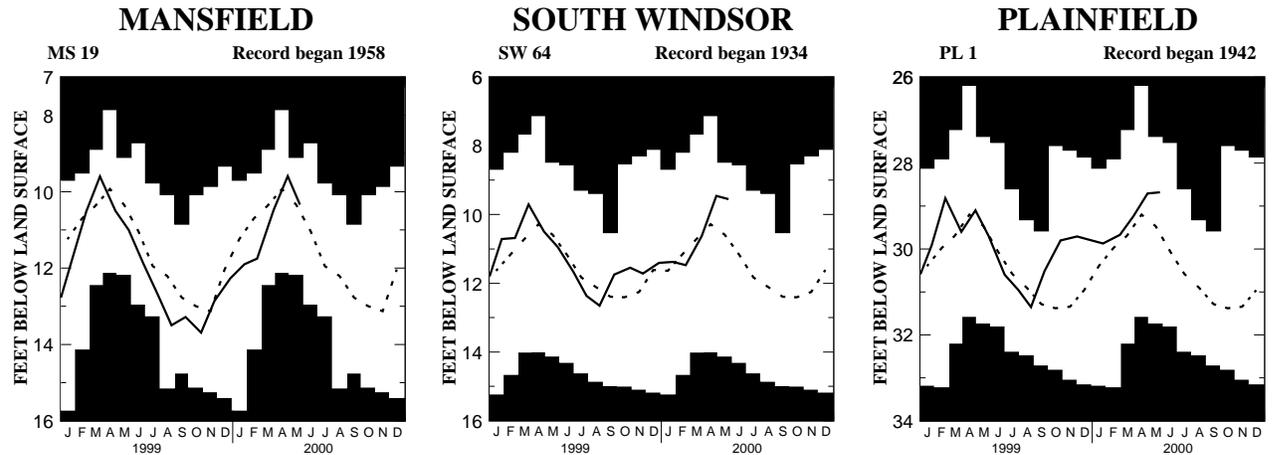
[Station locations shown on front page; --, not applicable; **streamflow** measured in instantaneous cubic feet per second; **% flow duration** is that flow that was equaled or exceeded more than "X" percent of the time from 1961-90; **bacteriological analysis** reconnaissance data enumerated using membrane filter method with immediate incubation; **col/100 mL**, colonies per 100 milliliters; **K**, results based on colony count outside the acceptable range (non-ideal colony count)]

USGS WATER-QUALITY STATION NAME AND NUMBER	SAMPLE DATE IN 2000	STREAMFLOW/ % FLOW DURATION	SPECIFIC CONDUCTANCE (in $\mu\text{S}/\text{cm}$ at 25°C)	WATER TEMPERATURE (°C)	DISSOLVED OXYGEN CONCENTRATION (mg/L)	FIELD PH	FECAL COLIFORM (COL/100 mL)	ENTEROCOCCI (COL/100 mL)
01119375 Willimantic R. at Merrow	5/11	428/--	80	15.0	10.3/104	7.12	15K	580
01122610 Shetucket R. at South Windham	5/25	1980/--	80	15.0	9.9/100	7.36	940	620
01124000 Quinebaug R. at Quinebaug	5/22	363/25	131	14.0	10.1/98	7.57	80	21
01125100 French R. at North Grosvenordale	5/22	213/--	156	14.0	10.2/101	7.27	52	21
01127000 Quinebaug R. at Jewett City	5/25	2730/13	94	16.0	9.4/98	7.18	1100	900
01184000 Connecticut R. at Thompsonville	5/16	51200/6.0	75	13.0	10.3/97	7.37	--	--
01188090 Farmington R. at Unionville	SITE NOT SAMPLED THIS MONTH							
01189030 Pequabuck R. at Farmington	SITE NOT SAMPLED THIS MONTH							
01189995 Farmington R. at Tariffville	SITE NOT SAMPLED THIS MONTH							
01190070 Connecticut R. at Hartford	SITE NOT SAMPLED THIS MONTH							
01193050 Connecticut R. at Middle Haddam	SITE NOT SAMPLED THIS MONTH							
01193500 Salmon R. near East Hampton	SITE NOT SAMPLED THIS MONTH							
01196500 Quinnipiac R. at Wallingford	SITE NOT SAMPLED THIS MONTH							
01198125 Housatonic R. near Ashley Falls, MA	5/15	1530/--	257	15.0	8.7/88	7.19	128	24
01201487 Still R. at Rt. 7 at Brookfield Center	5/31	70.0/--	477	15.0	8.4/83	7.82	264	87K
01205500 Housatonic R. at Stevenson	SITE NOT SAMPLED THIS MONTH							
01208049 Naugatuck R. near Waterville	SITE NOT SAMPLED THIS MONTH							
01208500 Naugatuck R. at Beacon Falls	SITE NOT SAMPLED THIS MONTH							
01208990 Saugatuck R. near Redding	SITE NOT SAMPLED THIS MONTH							
01209710 Norwalk R. near Winnipauk	5/10	35.0/--	304	18.0	9.1/97	7.78	--	--

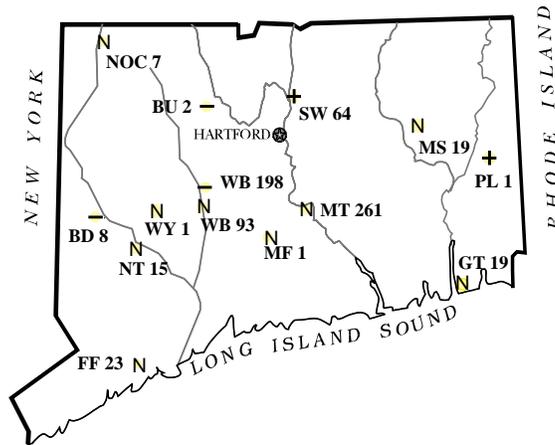
## GROUND-WATER LEVELS

(Status of ground-water storage as indicated by water level changes in observation wells, as shown on hydrographs)

-  Shaded area on graphs show highest and lowest water levels of record through calendar year 1998.
-  Solid line shows current water levels.
-  Dashed line is monthly median for period of record through calendar year 1999.



MASSACHUSETTS



### ABOVE NORMAL

Within the highest 25% of record for this month.



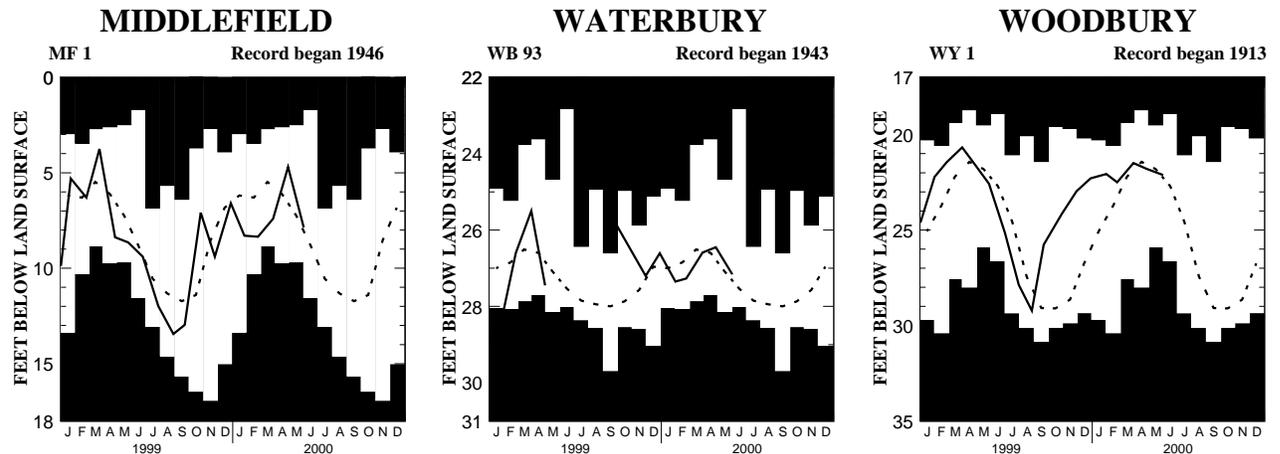
### NORMAL RANGE

Between the highest and lowest 25% of record for this month.



### BELOW NORMAL

Within the lowest 25% of record for this month.



**GROUND-WATER LEVELS**

Ground-water levels recorded at BU 2 and BU 144 (Burlington) and SC 21 (Scotland) were record lows for May, whereas levels at D 119 (Durham), EL 140 (Ellington), HM 448 and HM 449 (Hamden), MS 74 and MS 77 (Mansfield), and SC 19 and SC 23 (Scotland) were record highs for May.

Ground-water levels are in feet below land surface. Maximum and minimum values are from end-of-the month readings and may not be the highest or lowest ever recorded during the month. Statistics are based on period of record (through calendar year 1999). Ground-water level data collected by USGS personnel and individual observers.

**New records: >, new record high for month; >>, new record high for period of record; <, new record low for month; <<, new record low for period of record. \*, median not calculated--number shown is mean; NA, not available; OBS, obstructed, +, water level above ground surface**

**GROUND-WATER LEVELS**

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WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE									NEW RE- CORD	YR RECORD BEGAN
	MAY 2000 (DATE)		APR. 2000	MAY 1999	MAY MAX (YR RECORDED)		MAY MIN (YR RECORDED)		MAY MEDIAN		
BD 8 (Brookfield)	29.87	25	29.72	29.11	27.60	1989	31.84	1984	28.62		1966
BU 2 (Burlington)	22.60	23	23.86	19.82	14.84	1958	22.60	2000	17.02	<	1946
BU 143 (Burlington)	4.03	23	3.71	4.48	3.41	1996	4.73	1997	NA		1996
BU 144 (Burlington)	2.52	23	2.58	2.18	2.18	1999	2.52	2000	NA	<	1996
CL 223 (Clinton)	3.37	24	2.64	3.32	3.32	1999	5.64	1992	4.65		1991
CL 224 (Clinton)	19.31	24	18.46	20.41	18.53	1998	20.41	1999	19.62		1991
CL 225 (Clinton)	5.56	24	5.46	5.47	5.47	1999	6.04	1992	5.77		1991
CO 335 (Colchester)	6.67	25	6.22	7.20	6.37	1989	7.69	1986	7.20		1986

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YR RECORD BEGAN	
	MAY 2000 (DATE)		APR. 2000	MAY 1999	MAY MAX (YR RECORDED)		MAY MIN (YR RECORDED)				MAY MEDIAN
CV 51 (Coventry)	4.20	23	3.57	4.50	3.83	1996	4.92	1995	4.44		1992
D 116 (Durham)	0.16	25	0.17	0.24	0.05	1998	3.79	1986	0.90		1986
D 117 (Durham)	9.53	25	8.61	10.77	7.18	1998	12.57	1986	10.18		1986
D 119 (Durham)	0.11	25	0.09	0.70	0.11	2000	2.73	1986	1.12	>	1986
D 120 (Durham)	1.73	25	1.99	1.99	0.24	1998	3.42	1986	2.42		1986
EL 82 (Ellington)	5.55	23	5.17	6.16	5.46	1996	8.35	1987	5.86		1987
EL 139 (Ellington)	19.41	23	17.74	22.61	18.68	1996	21.04	1996	20.89		1993
EL 140 (Ellington)	12.00	23	11.05	13.74	12.00	2000	13.85	1996	13.64	>	1993
EW 133 (East Windsor)	4.58	23	4.10	5.11	1.40	1989	5.29	1992	4.92		1986
EW 134 (East Windsor)	50.25	23	50.62	50.77	48.98	1990	50.77	1999	49.67		1986
FF 23 (Fairfield)	7.89	31	7.03	8.05	5.03	1989	8.40	1998	7.90		1966
FF 30 (Fairfield)	2.07	31	1.03	1.49	0.95	1996	3.11	1995	2.39		1993
FF 31 (Fairfield)	6.56	31	4.72	5.88	3.75	1996	7.06	1995	5.82		1993
FF 32 (Fairfield)	5.60	31	5.05	6.30	5.05	1996	6.53	1995	6.15		1993
FF 33 (Fairfield)	4.82	31	4.30	5.40	4.30	1996	5.40	1999	5.08		1993
GR 328 (Granby)	9.70	23	9.07	11.26	8.51	1983	13.00	1985	10.98		1981
GR 329 (Granby)	4.34	23	3.66	5.73	3.78	1998	8.74	1985	5.02		1982
GR 330 (Granby)	2.27	23	2.16	3.22	2.19	1996	3.84	1986	3.15		1982
GR 331 (Granby)	9.35	23	8.52	9.89	8.36	1996	10.94	1986	9.35		1983
GT 19 (Groton)	14.08	28	12.80	16.17	11.68	1979	16.17	1999	15.25		1958
HM 445 (Hamden)	21.23	31	16.17	24.40	17.66	1998	24.40	1999	23.18		1988
HM 446 (Hamden)	3.23	31	2.51	3.21	3.14	1994	3.84	1995	3.60		1993
HM 447 (Hamden)	2.37	31	1.63	2.60	2.27	1994	3.67	1995	2.75		1993
HM 448 (Hamden)	12.69	31	12.00	13.08	12.69	2000	13.91	1995	13.18	>	1993
HM 449 (Hamden)	14.97	31	14.66	18.40	14.97	2000	18.40	1999	17.60	>	1993
HM 450 (Hamden)	13.10	31	12.27	13.40	12.12	1993	13.79	1995	13.14		1993

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YR RECORD BEGAN	
	MAY 2000 (DATE)		APR. 2000	MAY 1999	MAY MAX (YR RECORDED)		MAY MIN (YR RECORDED)				MAY MEDIAN
MB 32 (Marlborough)	2.93	25	1.85	4.28	1.47	1989	5.68	1986	4.28		1986
MB 35 (Marlborough)	7.52	25	5.41	9.50	6.58	1996	9.99	1995	9.18		1993
MB 36 (Marlborough)	2.71	25	2.58	2.70	2.30	1995	4.20	1994	3.39		1993
MF 1 (Middlefield)	7.87	31	4.70	8.65	2.48	1989	9.67	1966	7.35		1946
MS 19 (Mansfield)	10.34	23	9.59	11.00	9.10	1964	12.16	1985	10.34		1958
MS 44 (Mansfield)	2.20	23	0.63	2.73	1.54	1989	5.51	1986	3.43		1982
MS 45 (Mansfield)	11.23	23	10.57	12.33	10.55	1996	12.33	1999	11.87		1987
MS 46 (Mansfield)	12.55	23	12.27	13.10	12.46	1996	13.53	1995	12.87		1987
MS 74 (Mansfield)	0.79	23	0.55	1.59	0.79	2000	3.98	1993	2.94	>	1992
MS 75 (Mansfield)	5.17	23	4.50	7.16	4.72	1996	7.78	1994	6.85		1992
MS 76 (Mansfield)	28.38	23	26.65	OBS	29.48	1993	30.86	1995	30.38		1992

WELL NUMBER AND TOWN	GROUND-WATER LEVELS, IN FEET BELOW LAND SURFACE								NEW RE-CORD	YR RECORD BEGAN	
	MAY 2000 (DATE)		APR. 2000	MAY 1999	MAY MAX (YR RECORDED)		MAY MIN (YR RECORDED)				MAY MEDIAN
MS 77 (Mansfield)	1.07	23	0.48	1.84	1.07	2000	3.29	1998	3.03	>	1993
MT 261 (Middletown)	19.38	31	18.65	20.18	18.65	1989	20.53	1986	19.80		1956
NHV 201 (North Haven)	15.40	31	15.32	15.96	13.07	1983	17.39	1985	15.00		1975
NHV 202 (North Haven)	41.05	31	44.03	49.31	36.35	1983	59.79	1985	47.55		1975
NOC 7 (North Canaan)	9.32	31	9.20	9.60	8.86	1973	10.30	1997	9.47		1958
NSN 77 (N. Stonington)	10.58	24	7.66	12.38	8.57	1998	13.03	1992	11.40		1991
NSN 78 (N. Stonington)	4.00	24	3.94	4.06	3.81	1998	4.43	1993	4.06		1991
NT 15 (Newtown)	4.64	31	3.41	4.58	0.30	1989	7.69	1985	3.77		1966
PL 1 (Plainfield)	28.68	24	28.71	29.70	27.38	1983	31.72	1966	29.78		1942
SB 30 (Southbury)	18.17	31	17.71	19.19	16.97	1996	19.44	1995	17.92		1979
SB 39 (Southbury)	6.52	31	6.00	6.44	5.56	1994	7.10	1992	6.49		1991
SB 41 (Southbury)	47.37	31	46.87	48.45	45.77	1994	48.45	1999	46.67		1991
SB 42 (Southbury)	12.49	31	12.33	13.51	11.95	1996	14.51	1995	13.36		1993
SC 19 (Scotland)	2.49	24	1.93	4.55	2.49	2000	6.07	1993	4.41	>	1983
SC 20 (Scotland)	4.16	24	0.16	5.98	2.83	1987	6.00	1993	4.89		1983
SC 21 (Scotland)	+0.70	24	+0.65	0.04	+0.30	1998	+0.70	2000	0.04	<	1983
SC 22 (Scotland)	10.56	24	8.32	11.86	10.03	1987	11.86	1999	11.18		1984
SC 23 (Scotland)	1.39	24	1.45	1.79	1.39	2000	2.47	1993	2.20	>	1983
SM 7 (Salem)	8.66	24	7.47	10.27	7.45	1998	11.20	1986	9.41		1979
SW 64 (S. Windsor)	9.55	23	9.46	10.95	8.48	1973	14.12	1966	10.67		1934
SY 15 (Salisbury)	12.47	26	12.42	13.14	10.85	1989	13.96	1988	12.53		1966
SY 23 (Salisbury)	5.30	26	4.96	7.45	4.59	1989	8.30	1999	6.48		1987
SY 24 (Salisbury)	8.70	26	8.25	10.41	7.44	1996	12.47	1995	10.00		1986
WB 93 (Waterbury)	27.16	31	26.45	OBS	24.67	1989	28.13	1983	27.12		1943
WB 198 (Waterbury)	13.25	31	12.87	14.83	6.30	1952	18.72	1985	12.52		1943
WY 1 (Woodbury)	22.12	31	21.80	22.58	19.49	1989	28.35	1915	22.08		1913

New records: >, new record high for month; >>, new record high for period of record; <, new record low for month; <<, new record low for period of record. \*, median not calculated--number shown is mean; NA, not available; OBS, obstructed, +, water level above ground surface